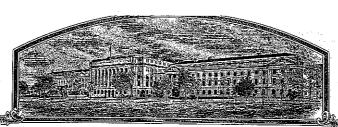
No.



200300096

THE UNITED STATES OF ANTERIOA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Pioneer Hi-Bred International, Inc.

PURCEAS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT; THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE HITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITIORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN ACDUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY TECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'92M72'

In Vertinium Murror, I have hereunto set my hand and caused the seal of the Unit Buristy Frotestion Office to be affixed at the City of Washington, D.C. this eighteenth day of July, in the year two thousand three.

Panjke

Commissioner Plant Variety Protection Office Apricultural Marketine Service Marenon Käriculturo U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)

NAME OF OWNER Pioneer Hi-Bred Inter-	2. TEMPORARY DESIGNAT EXPERIMENTAL NAME		3. VARIETY NAME 92M72					
4. ADDRESS (<i>Street and No., or R.F.D. No.,</i> 7300 N. W. 62 rd Avenue P.O. Box 1004 Johnston, IA 50131		TELEPHONE (include 515-254-2638 FAX (include area code 515-253-2478	2 0 f	FOR OFFICIAL USE ONLY VEO NUMBER 0 3 0 0 9 6				
7. IF THE OWNER NAMED IS NOT A "PERS ORGANIZATION (corporation, partnership, Corporate	ON", GIVE FORM OF association, etc.)	8. IF INCORPO STATE OF lowa	DRATED, GIVE NCORPORATION	9. DATE OF INCORPORATION May 6, 1926		1/28/2003		
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First Daria Schmidt, Ph. D. Steve Callestine, Exq 7100 N.W. 62 rd Avenue 7100 N.W 62 rd Avenue P.O. Box 1000 Johnston ,IA 50131-1004 Johnston, IA 50131-1000				receive all papers)				
11. TELEPHONE (Include area code) 515-254-2638	12. FAX (Include area code) 13. E-MAIL daria.schmidt@pioneer.com				14. CROP Soybean	KIND (Common Name)		
18. CHECK APPROPRIATE BOX FOR EACH reverse) a. X Exhibit A. Origin and Breedin b. X Exhibit B. Statement of Distin c. X Exhibit C. Objective Descript d. X Exhibit D. Additional Descrip	20. DOES THE C	19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act) YES (If "yes", answer items 20 X NO (If "no," go to item 22) and 21 below) 20. DOES THE OWNER SPECIFY THAT SEED OF THIS YES NO VARIETY BE LIMITED AS TO NUMBER OF CLASSES? IF YES, WHICH CLASSES? FOUNDATION REGISTERED CERTIFIED						
verification that tissue culture wi repository)	e untreated seeds or, for tuber propaga Il be depositied and maintained in an a 52,705), made payable to "Treasurer o	approved public	IF YES, SPEC NUMBER 1, 2	21. DOES THE OWNER SPECIFY THAT THE CLASSES BE LIMITED AS TO NUMBER OF GENERATIONS? IF YES, SPECIFY THE NUMBER 1, 2, 3, etc. FOUNDATION REGISTERED CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)				
22. HAS THE VARIETY (INCLUDING ANY HAFROM THIS VARIETY BEEN SOLD, DISPOTHER COUNTRIES? YES IF YES, YOU MUST PROVIDE THE DATE FOR EACH COUNTRY AND THE CIRCUIT	23. IS THE VARII PROPERTY I YE IF YES, GIVE	23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? YES IF YES, GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)						
24. The owners declare that a viable sample of for a tuber propagated variety a lissue cult. The undersigned owner(s) is(are) the owner and is entitled to protection under the provious owner(s) is(are) informed that false represents.	er of this sexually reproduced or tuber sions of Section 42 of the Plant Variet	propagated plant ty Protection Act.	variety, and believe(s) the					
SIGNATURE OF OWNER Darry H. Schnic	SIGNATURE OF	SIGNATURE OF OWNER						
NAME (Please print or type) Daria H. Schmidt			NAME (Please pri	NAME (Please print or type)				
CAPACITY OR TITLE Director, Technology Integration and Associativ	CAPACITY OR TI	řle		DATE				

Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 92M72

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Variety 92M72 evolved from a cross made in the winter of 1994/1995 in Chile with the following parentage:

Parentage: ST2621/93B82

Variety 92M72 is an F4-derived line which was advanced to the F5 generation by modified single-seed descent. The F5 progeny row of 92M72 was grown in a plant row yield trial in the summer of 1997. Subsequently, 92M72 has undergone five years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield, Phytophthora resistance, and resistance to brown stem rot, variety 92M72 was assigned a commercial number.

The purification block was grown in 2000 Illinois in 78 subline rows, of which 27 were harvested. A quarter acre increase was grown in Chile in 2000/2001. Nine (9) acres of parent seed stock was grown in 2001. One hundred thirty-one (131) acres of parent and production seed were grown in the summer of 2002.

Exhibit B. Statement of Distinctness

200300096

Soybean Variety 92M72

Variety 92M72 is most similar to variety 9281. Both varieties have purple flowers, and yellow seed with black hila and multi-race resistance to *Phytophthora megasperma* as governed by the Rps1k gene. However, 92M72 has light tawny pubescence whereas 9281 has tawny pubescence.

Variety 92M72 is also similar to 92B75. Both varieties have purple flowers, yellow seed with black hila, and multi-race resistance to *Phytophthora megasperma* as governed by the Rps1k gene. However, 92M72 has light tawny pubescence and is not resistant to Roundup branded herbicides whereas 92B75 has tawny pubescence and resistance to Roundup branded herbicides.

Variety 92M72 is also similar to A2804 from Asgrow (Monsanto). Both varieties have purple flowers, yellow seed with black hila, multi-race resistance to *Phytophthora megasperma* as governed by the Rps1k gene. However 92M72 has light tawny pubescence and does not carry a modified ALS gene for resistance to certain sulfonyl urea herbicides whereas A2804 has tawny pubescence and contains a modified ALS gene for resistance to certain sulfonyl urea herbicides.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 0581-0055

the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. B control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for tructions, searching existing data ources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

artment of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual nd marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, c.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

plaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326CJW, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 DD. USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY

		SOYBEAN (Glyc	ine max (L.) Mer	r.)		
NAME OF APPLICANT(S)					FOR OFFICIAL USE ON	ĻY
Pioneer Hi-Bred, International	2. 6			e e	PVPO NUMBER	1000
ADDRESS (Street and No. or R.F.D. No., C	ity, State, and Zip Con			£	·vvavv	096
7200 62nd Avenue P.O Box 1004			•		VARIETY NAME	
Johnston, IA 50131-1004		•			92M72	
		•	•		TEMPORARY OR EXPERIENCE DESIGNATION	RIMENTAL
				-		
PLEASE READ ALL INSTRUC	TIONS CAREFULLY: Place	ce the appropriate nu				
Place a zero in the first box (e.g.	9 9 9	or 0 9)	when number is ei	ther 99 or less or 9	9 or less respectively.	. Data for
quantitative					•	
plant characters chould be based	on a minimum of 100 plant	s. Comparative data	should be determined	l from varieties en	tered in the same tri	al. Royal
Horticulutral Society or any reco						· ·
•	- · · ·			te system useu.		
Please answer all questions for yo	our variety; lack of response	e may delay progress o	of your application.			•
A MODBILOLOGY						
A. MORPHOLOGY						
Seed Shape		•				
1 = Spherical			nerical - Flattene			•
(L/W, L/T, at	nd T/W ratios < 1.2)	(L/W r	atio > 1.2; L/T ra	atio < 1.2)	* * * * * * * * * * * * * * * * * * * *	
3 = Elongated	ď	4 = Elo	ngate - Flattened	Į .		
~	.2; T/W ratio < 1.2)		itio > 1.2;T/W ra			
Seed Coat Color:						
Seed Coat Color:			•			
$1 \qquad 1 = Yel$	llow 2 = Green	3 = Brown	4 = Black	5 = Other		
	dow 2 Often	3 Brown	T Diack	(Please Sp		
Seed Coat Luster:			•	(Piease Sp	ecijy	
4			-	at the state of	•	•
1 = Dull	1 2 = Shiny	· · · · · · · · · · · · · · · · · · ·				
Seed Size:					•	
Seed Size:						
17.4 grams/1	00 seeds					
grams/1	oo seeds					
Hilum Color:		•			* *	
6 1 = Buf	ff 2 = Yellow	3 = Brown	4 = Grav	5 = Imper	fect Black	
				5 imper	· DIMON	
6 = Bla	ack /= Other //	Please Specify)	1 .			

A. MORPHOLOGY (Continued)

Cotyledon Color:

$$1 = Yellow$$

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Seed Protein Peroxidase Activity:

$$1 = Low$$

$$2 = High$$

Hypocotyl Color:

2 = Green with Bronze
Bands below Cotyledons

Bands below Cotyledons ('Woodworth' or 'Tracy')

3 = Light Purple below Cotyledons ('Beeson' or 'Pickett 71') 4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or

Leaflet Shape:

Flower Color:

Pod Color:

Pubescence Color:

Plant Habit:

Maturity Group:



$$2 = 00$$

$$3 = 0$$

$$7 = IV$$
$$12 = IX$$

$$8 = V$$
$$13 = X$$

$$9 = VI$$

 $14 = XI$

Maturity Subgroup:



Please enter a value from 0 - 9

B. DISEASE REACTION

Bacterial



Bacterial Pustule (Xanthomonas campestri pv. glycines (Nakano) Dye)

1

Bacterial Blight Pseudomonas syringa pv. glycinea (Coerper) Young, Dye, and Wilkie)

0

Wildfire Blight Pseudomonas syringa pv. tabaci (Wolf Foster) Young, Dye, Wilkie)

, DISE	ASE REACTIO	N (Continued)	0 = Not	Tested	1 = Susce	ptibl (2 = Resista	int 3 =	Tolerant	
Fungal										
1	Brown Spot (Sep	otoria glycines <u>H</u> emmi)						2003	000	9 (
	Frogeye Leaf Spo	t (Cercospora sojina	Hara)							
0	race 1	0 race 2			0	race 3		0	race 4	ţ
0	race 5	0 race 6	. "			Othe (P	lease Spec	ify)		
0	Target Spot (Cor)	vnespora cassiicola (B	erkC	urt.) Wei)						
0	Downey Mildew (1	Peronospora trifolioru	m var. i	nanchuric	(Naum.)	Syd. ex G	äum)			
0	Powdery Mildew (Microsphaera diffusa	Cke. ar	nd Pk.)					٠.	
2	Brown Stem Rot	(Phialophora gregata	(Alling	ton _Chaml	berlain) W	. Gams.)				
0	Stem Canker (Dia	sporthe phaseolorum	(Cke. aı	nd Ell.) Sac	c. var <i>cau</i>	ulivora At	thow and (Caldwell		
1	Pod and Stem Blig	ht <i>(Diaporthe phase</i>	olorum	(Cke. and I	Ell.) Sacc.	var <i>soja</i>	e (Lehman) Wehm		
0	Purple Seed Stain	(Cercospora kikuch	uii (T. I	Matsu. and	Tomoyası	u) Garde	ner)			
1	Rhizoctonia Root I	Rot <i>(Rhizoctonia sol</i>	ani Kül	nn)						
hytoph	thora Root Rot <i>(Ph</i>	ytophthora megasperi	na Dr	echs. f. sp	glycinea ((Kuan E	rwin))			
0	race 1	0 race 8	0	race 15	(race	e 22			
0	race 2	0 race 9	0	race 16	() race	23		•	
2	race 3	o race 10	0	race 17	(_	24			
	_	0 race 11	0	race 18		lrace	25			
		0 race 12	0	race 19	(e 26 er <i>(Pleas</i>	e Specify)		
2		race 13	0	race20						
	Bud Blight (Tobacc					. · ·				
1	Yellow Mosaic (bea	ın Yellow Mosaic Vir	us)		•					

B. DIS	EASE REAC	TIONS (Con	ntinued)	0 = No	t Tested	1 = Suscepti	ble $2 = \mathbb{R}$	esistant	3 = Tol	erant	
Funga		aic (Cowpea Ch	lorotic Vir	rus)	13			^ ^	A 39 A	<i>A A</i>	n &
1	Pod Mottle (E	Bean Pod Mottle	e Virus)					20	030	() ()	90
1	Seed Mottle (S	Soybean Mosaic	e Virus)								· · . · .
Nema	tode		* * * * * * * * * * * * * * * * * * * *	•							
Soybe	an Cyst Nematod	le <i>(Heterodera</i>	glycines I	chinohe)						
0	race 1	0 race 4		0	race 9						· ·
0	race 2	0 race 5		0	race 14						-
0	race 3	O race 6	· ·		Other	(Please Spec	ify)				
0	Lance Nemato	de <i>(Hoploaim</i>	us columb	us Sher)						
0	Southern Root	t Knot Nematod	le <i>(Meloi</i> i	dogyne	incognita	(Kofoid and	White) Chi	two			
0	Northern Roo	t Knot Nematod	le <i>(Meloii</i>	dogyne	<i>hapla</i> Chi	itwood)					
0	Peanut Root K	Inot Nematode	(Meloidog)	vne arei	naria (Nea	al) Chitwood)					
0	Reniform Nem	atode <i>(Rotylen</i>	chus renif	ormu 1	_inwood a	nd Olivera)					
0	Javanese Nema	atode <i>(Meloido</i>	gyne javan	ica (Ti	eub) Chit	wood)					
	Other Nematoo	de <i>(Please Spe</i>	cify)								
C. PHY	SIOLOGICA	L RESPONS	ES 0	= Not	Tested	1 = Susceptib	ole 2 = Re	sistant	3 = Tole	rant	
0	Iron Chlorosis	on Calcareous	Soil								
0	Phosphorus				Oth	er <i>(Please S</i>	pecify)				
0	Boron				· ·						
0	Aluminu			·. ·							•
0	Salt				· · · · · · · · · · · · · · · · · · ·						
	Drought										

D. INS	ECT REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
Fungal					
0	Mexican Bean Beetle (Epilachna var	ivestis Mulsant)		20	0300096
0	Potato Leaf Hopper (Empoasca faba	e (Harris))			
0	Other (Please Specify)				
E. HEF	RBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	
0	Metribuzin				
0	Bentazone				
1	Sulfonylurea				
1	Glyphosate				
0	Glufosinate				
0	Pendimethalin				
0	Other (Please Specify) 0				
F. TRA	NSGENIC COMPOSITION				
	evelopment of the subject variety included moval of genetic material from the appl		genetic material fr	om an organism No	other than a soybean,
	ase complete the following infomation r				
1. Please	state the vector's name:				
2. Please	state the vector components:	· · · · · · · · · · · · · · · · · · ·			
3. Please	describe the genetic material successful	ly transferred into	the subject variety	:	
4. Please	describe the insertion protocol:	· · · · · · · · · · · · · · · · · · ·		· .	
the "Tran details of t	erature citation(s) explaining the four in sgenic Composition" portion of this for the vector components and insert eleme opment, Identification, and Characteriz	m. This section is nts are summarize	fully addressed in d in Figure 1 and T	the following pul able 1 on page 1	blication. Specific 453. Padgette, S.R. et
G. BIO	CHEMICAL MARKERS				
	cribe any biochemical information here le Sequences Repeats, Restriction Fragi ecessary.				

H. COMMENTS

200300096

Exhibit D. Additional Description of the Variety

200300096

Soybean Variety 92M72

In Exhibit C we have identified variety 92M72 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 92M72 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 92M72 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 92M72 is a late Group 2 variety. If Group 2 varieties are divided into tenths, the relative maturity of 92M72 is 2.7.

REPRODUCE LOCALLY. Include form number and edition date on a		FORM APPROVED - OMB No. 0581-005		
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in 1974 (5 U.S.C. 552a) and the Paper			
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to det certificate is to be issued (7 U.S.C. 2	421). The information is held		
1. NAME OF APPLICANT(S)	confidential until the certificate is issu 2. TEMPORARY DESIGNATION	2. VARIETY NAME		
Pioneer Hi-Bred International, Inc	OR EXPERIMENTAL NUMBER	92M72		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (include area code)	6. FAX (Include area code)		
7300 N.W. 62 nd Avenue P.O. Box 1004 Johnston, IA 50131-1004	515-254-2638	515-253-2478		
	7. PVPO NUMBER 2 0 0 3 0	0096		
8. Does the applicant own all rights to the variety? Mark an "X" in the lf no, please explain.	ne appropriate block.	X YES NO		
9. Is the applicant (individual or company) a U.S. National or a U.S. If no, give name of country	based company?	X YES NO		
10. Is the applicant the original owner?	If no, please answer one of the fol	lowing:		
a. If the original rights to variety were owned by individual(s), is		al(s)?		
YES NO If no, give name of count		al(3):		
	•			
b. If the original rights to variety were owned by a company(ies		sed company?		
YES NO If no, give name of count	ry			
11. Additional explanation on ownership (If needed, use the reverse	for extra space):			
Please Note:		·		
Plant variety protection can only be afforded to the owners (not licen	sees) who meet the following criteria:			
 If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals of 	person must be a U.S. national, national of the U.S. for the same genus and speci	of a UPOV member country, or ies.		
If the rights to the variety are owned by the company which emplo nationals of a UPOV member country, or owned by nationals of a genus and species.	yed the original breeder(s), the company country which affords similar protection	y must be U.S. based, owned by to nationals of the U.S. for the same		
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	neet one of the above criteria.		
The original breeder/owner may be the individual or company who di Act for definitions.	irected the final breeding. See Section 4	11(a)(2) ot the Plant Variety Protection		
According to the Paperwork Reduction Act of 1995, no persons are required to respond to a for this information collection is 0581-0055. The time required to complete this information or instructions, searching existing data sources, gathering and maintaining the data needed, are	collection is estimated to average 6 minutes per respo	anse including the time for reviewing the		
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To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Wash opportunity employer. T-470-E (04-99) (Destroy previous editions).	ington, D.C. 20250, or call 1-800-245-6340 (voice) or	(202) 720-1127 (TDD). USDA is an equal		
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